





PAGER Version 5

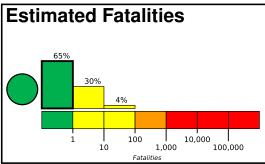
10,000

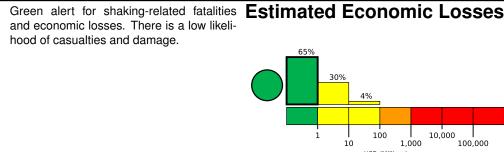
100,000

1,000

Created: 1 day, 0 hours after earthquake

M 5.8, 85 km E of Yokohama, Japan Origin Time: 2023-11-19 21:01:30 UTC (Mon 06:01:30 local) Location: 41.2104° N 142.2519° E Depth: 41.0 km





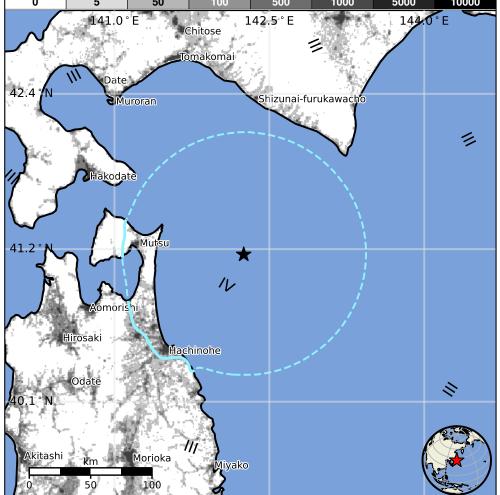
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	3,988k*	530k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us6000lphm#pager

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1994-12-28	124	7.7	VII(130k)	3
1983-05-26	278	7.7	VII(174k)	104
1993-07-12	311	7.7	VIII(4k)	200

Recent earthquakes in this area have caused secondary hazards such as landslides and fires that might have contributed to losses.

Selected City Exposure

from Ge	eoNames.org	
MMI	City	Population
IV	Mutsu	49k
IV	Misawa	43k
IV	Uchimaru	<1k
IV	Hachinohe	239k
IV	Inuotose	<1k
IV	Furudate	<1k
Ш	Aomorishi	298k
Ш	Hakodate	276k
Ш	Morioka	295k
Ш	Akita	326k
III	Akita	320k

bold cities appear on map.

(k = x1000)

Event ID: us6000lphm